

10/535 571

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
10 June 2004 (10.06.2004)

PCT

(10) International Publication Number  
**WO 2004/048542 A2**

- (51) International Patent Classification<sup>7</sup>: C12N Michael, R. [US/US]; 18 Hazelwood Avenue, San Francisco, CA 94112 (US). LICKTEIG, Kim [US/US]; 1921 Grove Street, San Francisco, CA 94117 (US).
- (21) International Application Number: PCT/US2003/037730 (74) Agents: SHAYESTEH, Laleh et al.; Exelixis, Inc., 170 Harbor Way, P.O. Box 511, South San Francisco, CA 94083-0511 (US).
- (22) International Filing Date: 24 November 2003 (24.11.2003) (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
60/429,061 25 November 2002 (25.11.2002) US  
60/437,163 30 December 2002 (30.12.2002) US
- (71) Applicant (*for all designated States except US*): EX-ELIXIS, INC. [US/US]; 170 Harbor Way, P.O. Box 511, South San Francisco, CA 94083-0511 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): KADYK, Lisa, C. [US/US]; 431 Mangels Avenue, San Francisco, CA 94127 (US). FRANCIS, George, Ross [US/US]; 424 Buel Avenue, Pacifica, CA 94044 (US). GENDREAU, Steven, Brian [US/US]; 2801 Turk Street, #103, San Francisco, CA 94118 (US). DORA, Emery, G., III [US/US]; 1847 32nd Avenue, San Francisco, CA 94122 (US). COSTA,
- (84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:  
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

WO 2004/048542 A2

(54) Title: MAPKS AS MODIFIERS OF THE RAC, AXIN, AND BETA-CATENIN PATHWAYS AND METHODS OF USE

(57) Abstract: Human MAPK genes are identified as modulators of the Rac, axin, and beta-catenin pathways, and thus are therapeutic targets for disorders associated with defective Rac, axin, and beta-catenin function. Methods for identifying modulators of Rac, axin, and beta-catenin, comprising screening for agents that modulate the activity of MAPK are provided.